



Attorney's Docket No.: 09010-027005 / DIVER 1350-4

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7/29/03

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Walter Callen et al.  
Serial No. : 10/029,382  
Filed : December 21, 2001  
Title : ENZYMES HAVING HIGH TEMPERATURE POLYMERASE ACTIVITY AND METHODS OF USE THEREOF

Art Unit : 1652  
Examiner : Unknown

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

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JUL 24 2003  
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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR §1.97 and §1.98

Sir:

Enclosed for filing in the above-referenced patent application is a Form PTO-1449, being submitted after a first Office action on the merits, but before receipt of a final Office action or a Notice of Allowance. A check for \$180, in payment of the late submission fee of §1.17(p) is enclosed. Please apply any other necessary charges, and apply all credits, to Deposit Account No. 06-1050. The following documents related to this supplemental information disclosure statement are enclosed herewith:

- copy of Form PTO-1449 newly filed
- copies of cited references
- postcard

Applicants respectfully request consideration of the remarks and references set forth herein.

07/23/2003 MBIZUNES 00000101 10029382

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CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

JULY 18, 2003  
Date of Deposit

Signature

SUSAN SESNOVICH  
Typed or Printed Name of Person Signing Certificate

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Page : 2 of 2

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### REMARKS

The references cited on attached form PTO-1449 are being called to the attention of the Examiner. Copies of the references are enclosed. It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

This submission is a supplemental Information Disclosure Statement (IDS). The prior IDS's and PTO FORMs 1449 were submitted September 26, 2002 and January 31, 2003.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at 858 678 5070.

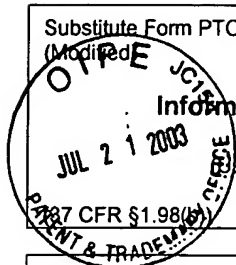
Respectfully submitted,

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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 09010-027005	Application No. 10/029,382
<b>Information Disclosure Statement</b> <b>by Applicant</b> (Use several sheets if necessary)		Applicant Walter Callen et al.	
		Filing Date December 21, 2001	Group Art Unit 1652

**U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	6,492,511	Dec 10, 2002	Callen et al.			
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

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**Foreign Patent Documents or Published Foreign Patent Applications**

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AL							
	AM							
	AN							
	AO							
	AP							

**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
	AQ	Uemori, et al., "The hyperthermophilic archaeon Pyrodicticum occultum has two alpha-like DNA polymerases", <u>J. Bacteriology</u> , Vol. 177, No. 8, pp. 2164-2177, 1995
	AR	Campbell, et al., "General properties and applications of monoclonal antibodies", Elsevier Science Publishers, section 1.1. pp. 1-32, 1984
	AS	Bost, et al., "Antibodies Against a Peptide Sequence Within the HIV Envelope Protein Crossreacts with Human Interleukin-2", <u>Immunological Investigations</u> , Vol. 17, No. 6 & 7, pp. 577-586, 1988
	AT	Bendayan, "Possibilities of False Immunocytochemical Results Generated by the Use of Monoclonal Antibodies: The Example of the Anti-proinsulin Antibody", <u>The Journal of Histochemistry and Cytochemistry</u> , Vol. 43, No. 9, pp. 881-886, 1995

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449  
(Modified)U.S. Department of Commerce  
Patent and Trademark Office

Attorney's Docket No.

09010-027005

Application No.

10/029,382

**Information Disclosure Statement  
by Applicant**

(Use several sheets if necessary)

Applicant

Walter Callen et al.

Filing Date

December 21, 2001

Group Art Unit

1652

**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
	AU	Colman, "Effects of amino acid sequence changes on antibody-antigen interactions" <u>Research in Immunology</u> , Vol. 145, No. 1, pp. 33-36
	AV	Lederman, et al., "A single Amino Acid Substitution in a Common African Allele of the CD4 Molecule Ablates Binding of the Monoclonal Antibody, OKT4", <u>Molecular Immunology</u> , Vol. 28, No. 11, pp. 1171-1181, 1991
	AW	Abaza, et al., "Effects of Amino Acid Substitutions Outside an Antigenic Site on Protein Binding to Monoclonal Antibodies of predetermined Specificity Obtained by Peptide Immunization: Demonstration with Region 94-100 (Antigenic Site 3) of Myoglobin", <u>Journal of Protein Chemistry</u> , Vol. 11, No. 5, pp. 433-444
	AX	Ngo, et al., "Computational Complexity, Protein Structure Prediction and the Levinthal Paradox", <u>The Protein Folding Problem</u> , Ch. 14, pp. 491-494

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Date Considered

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